



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Willard Shutter Company, Inc.
4420 N.W. 35th Court
Miami, Florida 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.050" Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 15-190, titled "0.050" Aluminum Storm Panel", sheets 1 through 7 of 7, prepared by EngCo. Inc., dated June 21, 2015, signed and sealed by Pedro De Figueiredo, P.E., on June 23, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #11-1207.09 and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
12/31/2015

NOA No. 15-0706.04
Expiration Date: 12/07/2016
Approval Date: 12/31/2015
Page 1

Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0221.01

A. DRAWINGS

1. Drawing No. 06-022, titled "0.050" Aluminum Storm Panel", sheets 1 through 7 of 7, prepared by EngCo. Inc., dated September 17, 2006, signed and sealed by Pedro De Figueiredo, P.E., on September 17, 2006.

B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 0.050" aluminum storm panels, prepared by American Test Lab of South Florida, Report No. 0109.01-06, dated February 07, 2006, signed and sealed by William R. Mehner, P.E.
2. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 0.050" aluminum storm panels, prepared by American Test Lab of South Florida, Report No. 1206.01-00, dated May 02, 2001, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P.E.

C. CALCULATIONS

1. Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated February 15, 2006, pages 1 through 19, prepared by Engco, Inc., signed and sealed by Pedro De Figueiredo, P.E., on February 15, 2006.
2. Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated September 17, 2006, pages 1 through 24, prepared by Engco, Inc., signed and sealed by Pedro De Figueiredo, P.E., on September 17, 2006.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.


E. MATERIAL CERTIFICATIONS

1. Certified Tensile Test Report by QC Metallurgical, Inc., Report No. 6AM-39, dated January 20, 2006 for 3 samples #0109.01-06 Specimens B, D, I, signed and sealed by Frank E. Grate Jr., P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0528.01

A. DRAWINGS

1. Drawing No. 09-088, titled "0.050" Aluminum Storm Panel", sheets 1 through 7 of 7, prepared by EngCo. Inc., dated April 30, 2009, signed and sealed by Pedro De Figueiredo, P.E., on May 05, 2009.



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 15-0706.04
Expiration Date: 12/07/2016
Approval Date: 12/31/2015

Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated February 15, 2006, pages 1 through 19, prepared by Engco, Inc., signed and sealed by Pedro De Figueiredo, P.E., on February 15, 2006.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Letter prepared by Engco, Inc., dated May 01, 2009, signed and sealed by Pedro De Figueiredo, P.E., on August 18, 2009, stating that this product is in compliance with the Florida Building Code, 2007 edition.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-1207.09

A. DRAWINGS

1. *Drawing No. 12-008, titled "0.050" Aluminum Storm Panel", sheets 1 through 7 of 7, prepared by EngCo. Inc., dated January 25, 2012, signed and sealed by Pedro De Figueiredo, P.E., on April 10, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

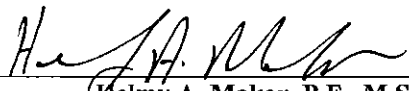
1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Letter prepared by Engco, Inc., dated January 25, 2012, signed and sealed by Pedro De Figueiredo, P.E., stating that this product is in compliance with the Florida Building Code, 2007 & 2010 editions.*


Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 15-0706.04
Expiration Date: 12/07/2016
Approval Date: 12/31/2015

Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 15-190, titled " 0.050" Aluminum Storm Panel", sheets 1 through 7 of 7, prepared by EngCo. Inc., dated June 21, 2015, signed and sealed by Pedro De Figueiredo, P.E., on June 23, 2015.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated June 23, 2015, 6 pages, prepared by Engco, Inc., signed and sealed by Pedro De Figueiredo, P.E., on June 23, 2015.*

D. QUALITY ASSURANCE


1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. OTHERS

1. *Letter prepared by Engco, Inc., dated June 21, 2015, signed and sealed by Pedro De Figueiredo, P.E., stating that this product is in compliance with the Florida Building Code, 2014 Edition.*


Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 15-0706.04
Expiration Date: 12/07/2016
Approval Date: 12/31/2015

GENERAL NOTES: (FLORIDA BUILDING CODE 2014 - HVHZ & non HVHZ)

1- THIS PRODUCT IS DESIGNED AND TESTED (TAS 201, 202, 203) IN ACCORDANCE WITH THE THE FLORIDA BUILDING CODE 2014 EDITION. PRODUCT CAN BE USED WHERE CODE IS APPLICABLE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2- POSTING: AN EMBOSSED OR PRINTED LABEL SHALL BE PROVIDED AS PER FBC 2014 SECTION 1710.8.3.1. IT SHALL BE LOCATED ON EACH PANEL SPACED NOT MORE THAN THREE FEET AND SHALL FACE THE EXTERIOR OR OUTSIDE. LABEL SHALL PROVIDE THE FOLLOWING INFORMATION:

"WILLARD SHUTTERS - MIAMI - FLORIDA
0.05 ALUMINUM HURRICANE PANEL
LARGE MISSILE IMPACT RESISTANT
MIAMI-DADE COUNTY PRODUCT APPROVED

3- MATERIAL:

- 3.1 - STORM PANELS SHALL BE 0.05" ALUMINUM 5052-H32 ALLOY.
3.2 - ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 OR AS INDICATED IN THIS SET OF DRAWINGS.

4- ANCHORS SHALL BE AS SHOWN ON THIS APPROVAL. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.

5- LOADS: PROJECT DESIGNED PRESSURES, PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER, AS DETERMINED FROM SECTION 1620 AND ASCE 7-10 MUST BE MULTIPLIED BY 0.6 FACTOR. THE CALCULATED PROJECT PRESSURES MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH COMPONENT TO BE USED.

6- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

- 6.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
6.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
6.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT

7- PANELS CAN BE OVERLAPPED TO CREATE A 1/2 PANEL INSTALLATION.

8- DISSIMILAR MATERIALS: WHERE ALUMINUM IS IN CONTACT OR FASTENED TO DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, INSTALLATION SHALL MEET THE REQUIREMENTS OF CHAPTER M.7 OF THE ALUMINUM DESIGN MANUAL 2010.

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS , ALLOWABLE DESIGN PRESSURES TABLE 1.
2	COMPONENTS DETAILS AND SCHEDULE
3	ANCHOR SCHEDULE AND ANCHOR TABLE 2.
4	DETAILS MOUNT TYPES 1, 2, 3, & 4
5	DETAILS MOUNT TYPES 5, 6, 7 & 8
6	DETAILS MOUNT TYPES 9, 9A, 10 & 10A
7	DETAILS SIDE CLOSURE SECTION

TYPICAL ELEVATION
PANELS CAN BE INSTALLED
VERTICALLY OR HORIZONTALLY USING
APPLICABLE ANCHORING DETAILS

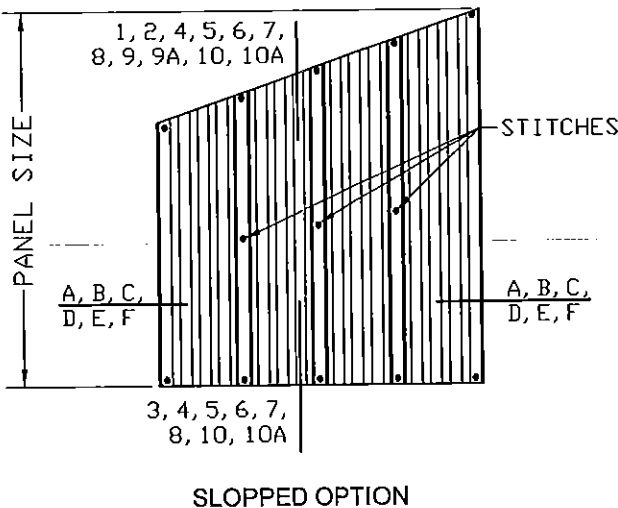
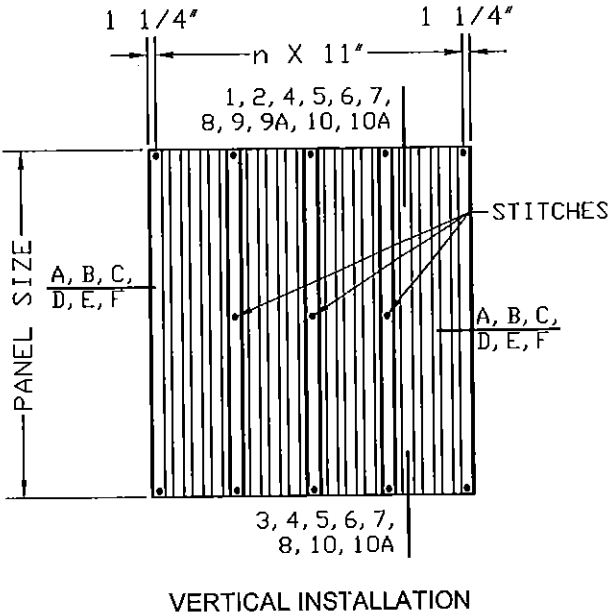
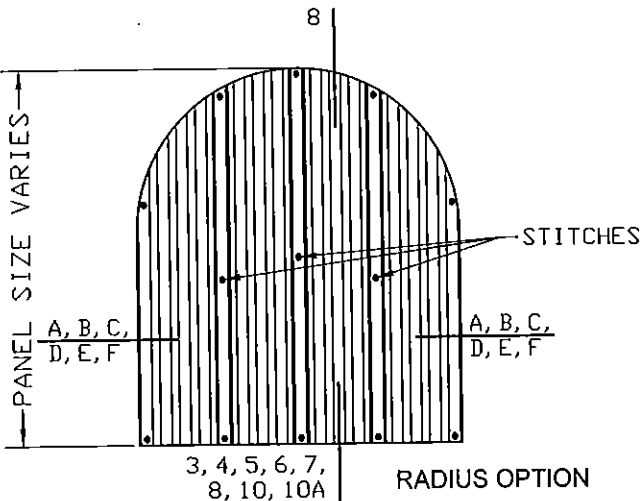
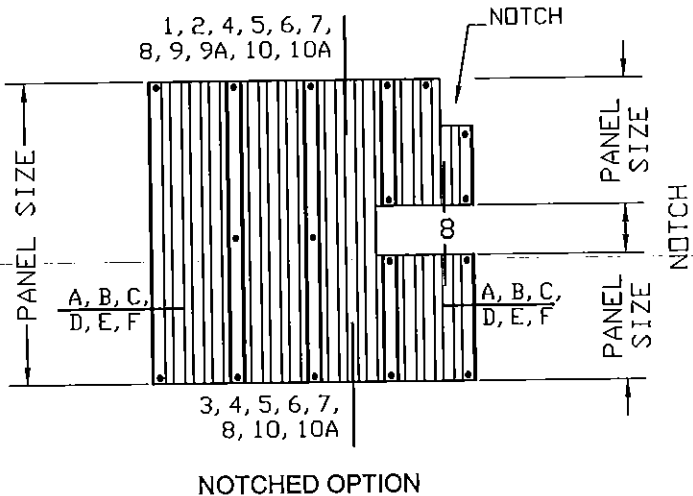
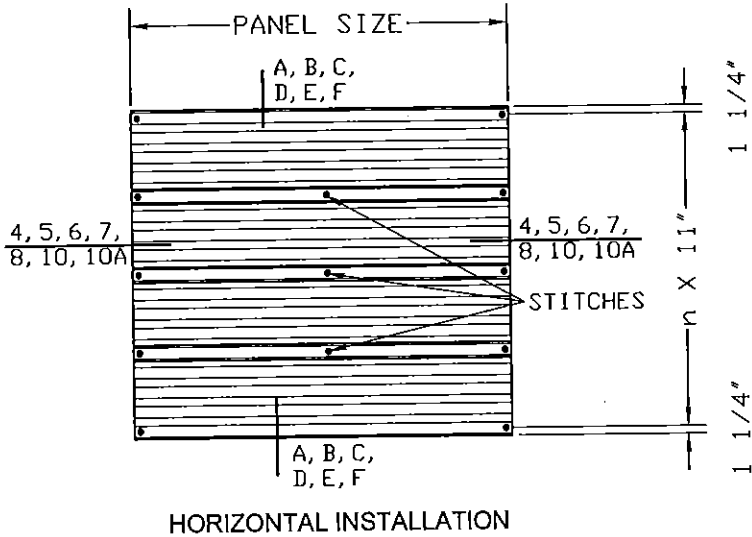


TABLE 1
PANEL ALLOWABLE DESIGNED PRESSURES:

MAX. PANEL SIZE (IN)	RATING (+/-) (PSF)
108	60
96	75
84	90
72	105
60	120

MID STITCHES ARE REQUIRED FOR PANELS GREATER THAN 54"



MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:

0.050 ALUMINUM
STORM PANEL

Engineering:

EngCo Inc.

CA 8116

5595 Orange Dr. 201

Davie, FL 33314

Tel.: (954) 585-0304

Fax: (954) 585-8305

ENG@ENGCO.COM

PE 52609

JUN 23 2015

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

PE 52609

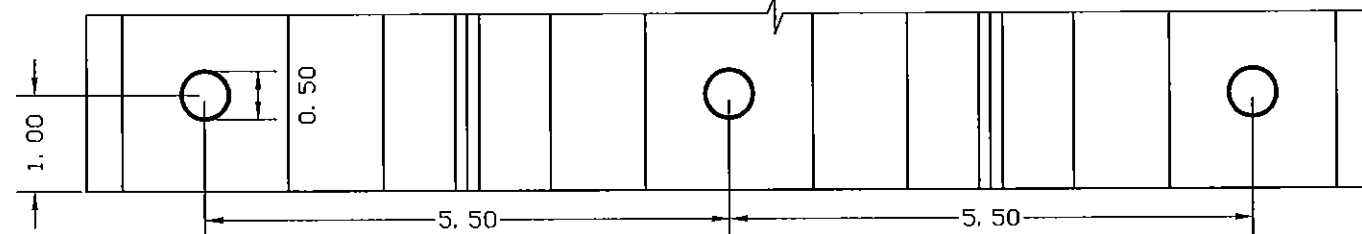
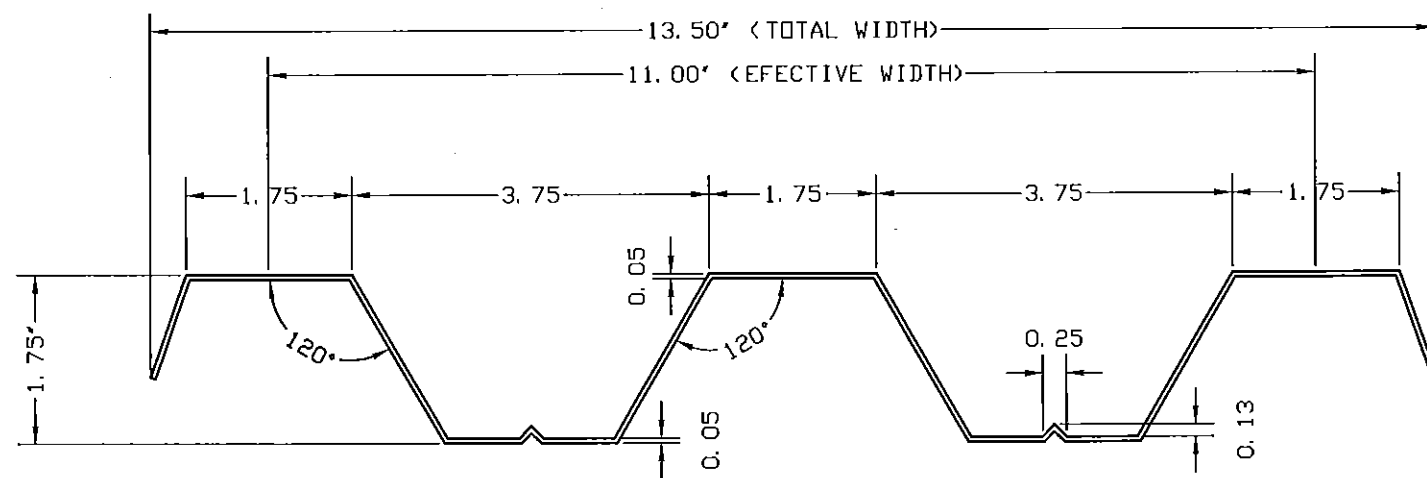
PE 52609

PE 52609

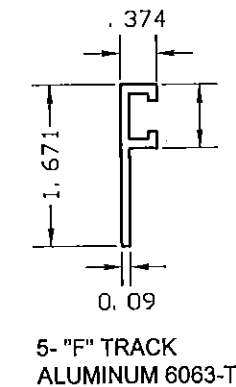
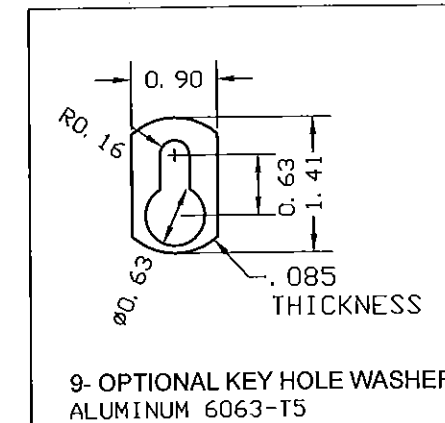
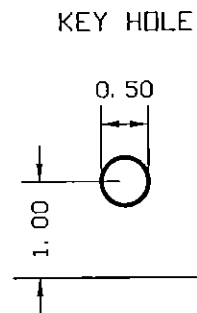
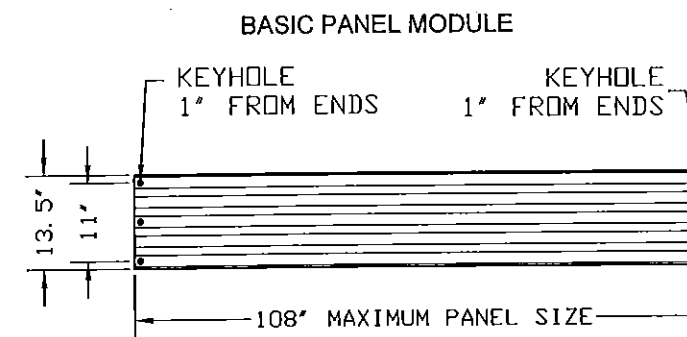
PE 52609

PE 52609

PE 52609

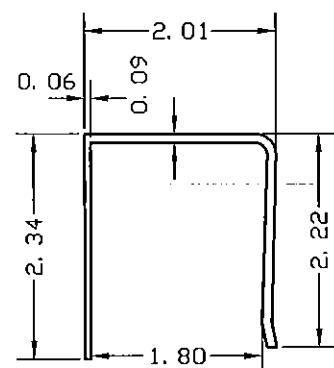


1- TYPICAL ALUMINUM PANEL
ALUMINUM 5052-H32 ALLOY

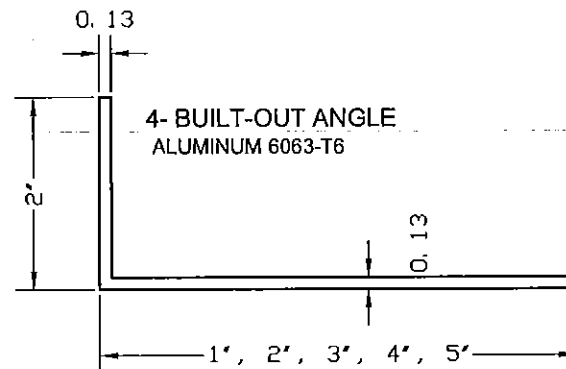


COMPONENTS SCHEDULE

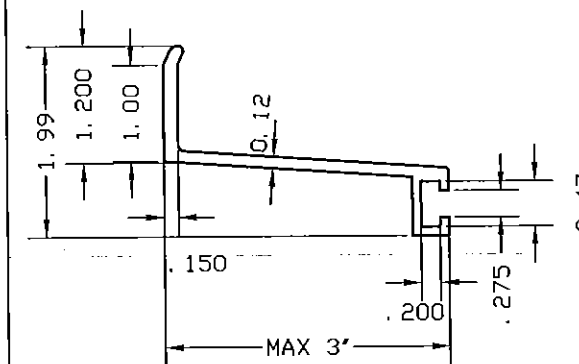
PART	DESCRIPTION	MATERIAL
1	0.05 ROLL FORMED PANEL	ALUMINUM
2	STUD ANGLE TRACK	6063-T6
3	'U' CEILING TRACK	6063-T6
4	1/8-2X BUILT-OUT ANGLE	6063-T6
5	'F' TRACK	6063-T6
6	'F' BUILT-OUT TRACK	6063-T6
7	'H' HEADER TRACK	6063-T6
8	CLIP SILL TRACK	6063-T6/ S. STEEL
9	OPTIONAL KEY HOLE WASHER	6063-T5
10	1/4-20 WASHERED WINGNUT	ZINC ALLOY
11	1/4-20 SS SIDEWALK SCREWS	STAINLESS STEEL
12	1/4-20 SS HH MACHINE SCREWS	STAINLESS STEEL
13	1/4-20 SS HH NUT	STAINLESS STEEL
14	1/4-20 SS TH MACHINE SCREWS	STAINLESS STEEL



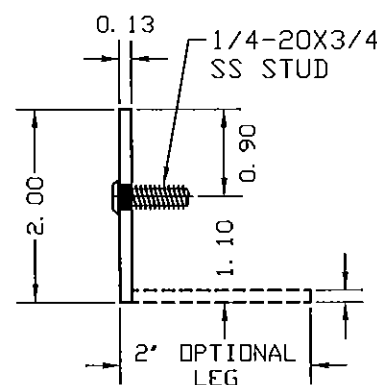
3- 'U' CEILING TRACK
ALUMINUM 6063-T6



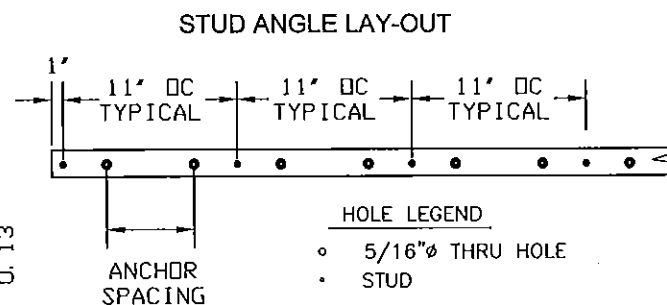
4- BUILT-OUT ANGLE
ALUMINUM 6063-T6



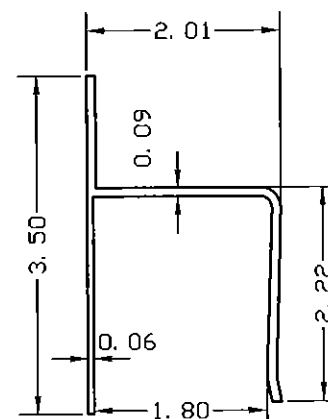
6- 1", 2", 3" 'F' BUILT-OUT TRACK
ALUMINUM 6063-T6



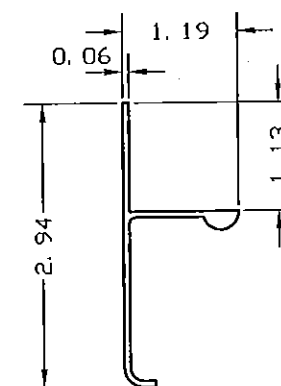
2- STUD ANGLE TRACK
ALUMINUM 6063-T6



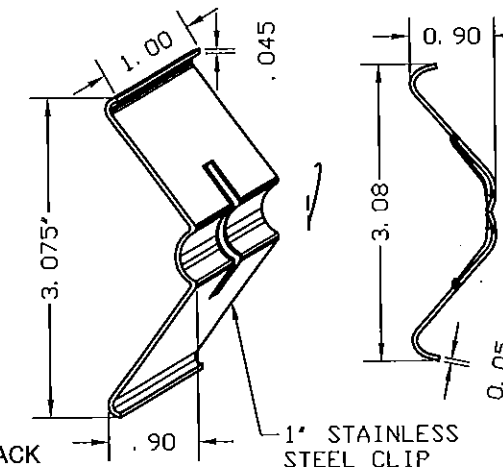
HOLE LEGEND
• 5/16" THRU HOLE
• STUD



7- 'H' HEADER TRACK
ALUMINUM 6063-T6



8- 'CLIP' SILL TRACK
ALUMINUM 6063-T6



MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:
**0.050 ALUMINUM
STORM PANEL**

Engineering:
EngCo Inc.
CA 8116
5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-8305
ENGCO.COM
PEDRO DE FIGUEROA
LICENSE
No. 52609
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
3 2015
PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0706-04
Expiration Date 12/07/2016
By *H. J. [Signature]*
Miami Dade Product Control

Date: 06/21/15
Scale: NA
Design by: PPMF

Drawing Number
15-190

SHEET
2 of 7

TABLE 2
MAXIMUM ANCHOR SPACING ON CENTER

MAXIMUM ANCHOR SPACING ON CENTER

MOUNT TYPE - SHEETS 4, 5 AND 6

PRESSURES

PANEL SIZE (INCHES)

60 IN

84 IN

108 IN

60 PSF

90 PSF

120 PSF

EXAMPLE:
PANEL HEIGHT: 84"
DESIGNED PRESSURE: Pd= 90 PSF
ANCHOR TYPE D2 - SEE ANCHOR SCHEDULE
MOUNT TYPE 10A - SEE SHEET 6 OF 7
MAXIMUM ANCHOR SPACING: 12" OC
EDGE DISTANCE - 3/4"
EMBEDMENT: 1 1/2"

EXAMPLE:
PANEL HEIGHT: 84"
DESIGNED PRESSURE: Pd= 90 PSF
ANCHOR TYPE D2 - SEE ANCHOR SCHEDULE
MOUNT TYPE 10A - SEE SHEET 6 OF 7
MAXIMUM ANCHOR SPACING: 12" OC
EDGE DISTANCE - 3/4"
EMBEDMENT: 1 1/2"

ANCHOR TYPE
SEE ANCHOR SCHEDULE

NOTES:
1- USE TABLE 2 IN CONJUNCTION WITH TABLE 1
2- ANCHOR SPACING CAN BE CALCULATED BY INTERPOLATION BETWEEN LOAD VALUES

ANCHOR SCHEDULE:

TYPE	DESCRIPTION	EMBED.	EDGE DIST
A	1/4" TAPCONS/ ULTRACON INTO CONCRETE (FC'=3192 PSI)	1 3/4"	2 1/2"
A1	1/4" TAPCONS/ ULTRACON INTO CMU	1 1/4"	2 1/2"
A2	1/4" TAPCONS/ ULTRACON INTO WOOD (SG>=.55)	1 1/2"	3/4"
B	1/4-20 MASONRY ANCHORS INTO CONCRETE (FC'= 3000PSI)	7/8"	3"
B1	1/4-20 MASONRY ANCHORS INTO CMU	7/8"	3"
C	1/4-20 WOOD BUSHING INTO WOOD (SG>=.55)	3/4"	3/4"
D	1/4" TAPCON SG INTO CONCRETE (FC'=3295 PSI)	1 3/4"	2 1/2"
D1	1/4" TAPCON SG INTO CMU	1 1/4"	2 1/2"
D2	1/4" TAPCON SG INTO 2X6 SOUTHERN PINE WOOD (SG>=.55)	1 1/2"	3/4"

NOTES:
1- EMBEDMENT IS BEYOND WALL DRESSING.
2- USE THIS ANCHOR SCHEDULE WITH TABLE 2
3- ANCHORS D, D1 AND D2 REQUIRE STRUCTURAL INSPECTION

A- 1/4" TAPCON BY ITW OR
ULTRACON BY ELCO

D- TAPCON SG BY ITW

B- 1/4-20 MASONRY ANCHOR
CALKIN BY POWERS OR SOLID-SET BY ALLPOINTS

C- BRASS WOOD BUSHING BY ALL POINTS

MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:
**0.050 ALUMINUM
STORM PANEL**

Engineering:
EngCo Inc.
CA 8116
5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-8305
ENGC.COM
PE 52609

STATE OF
FLORIDA
PROFESSIONAL ENGINEER
No. 52609
2-3-2015

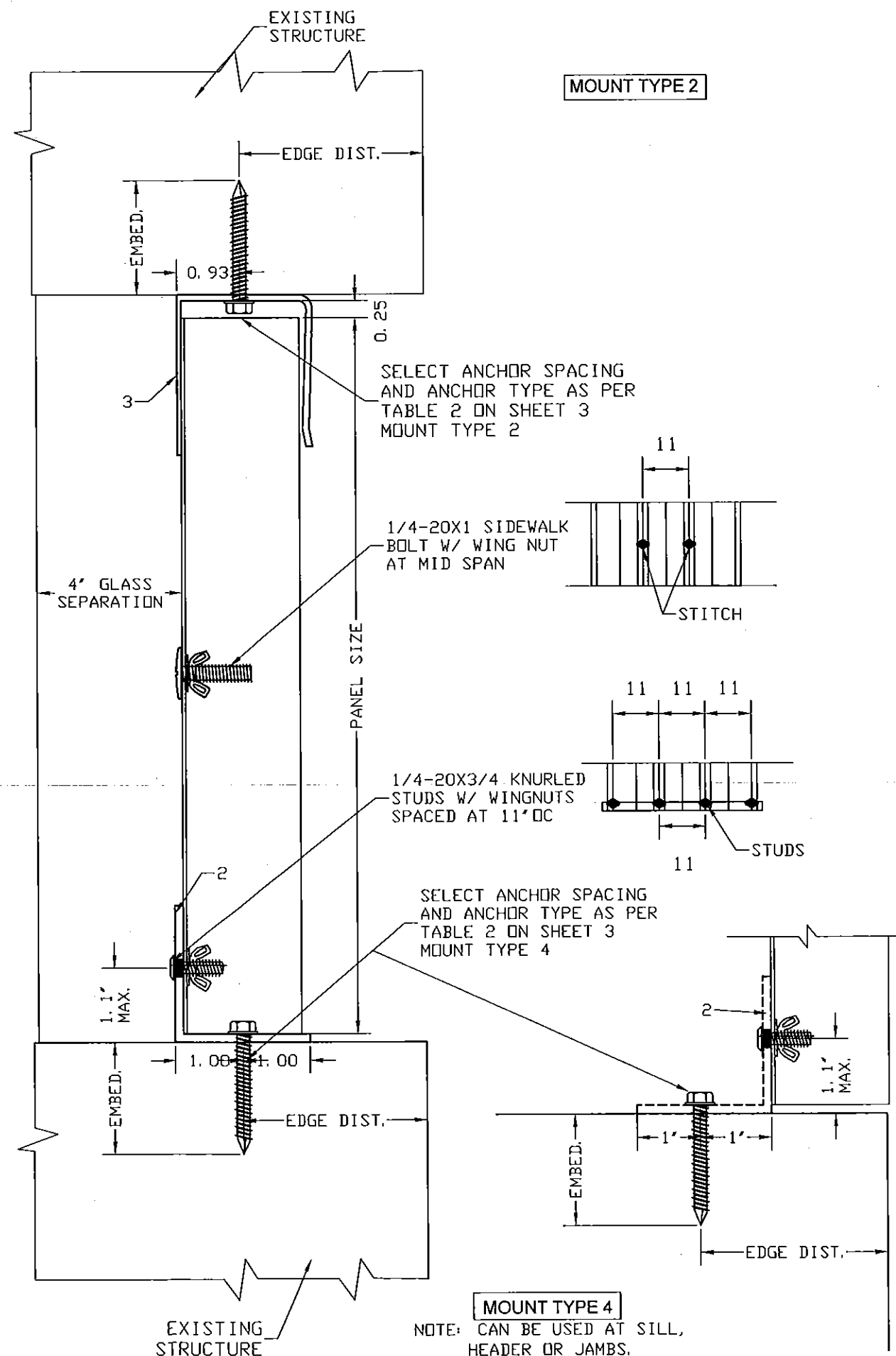
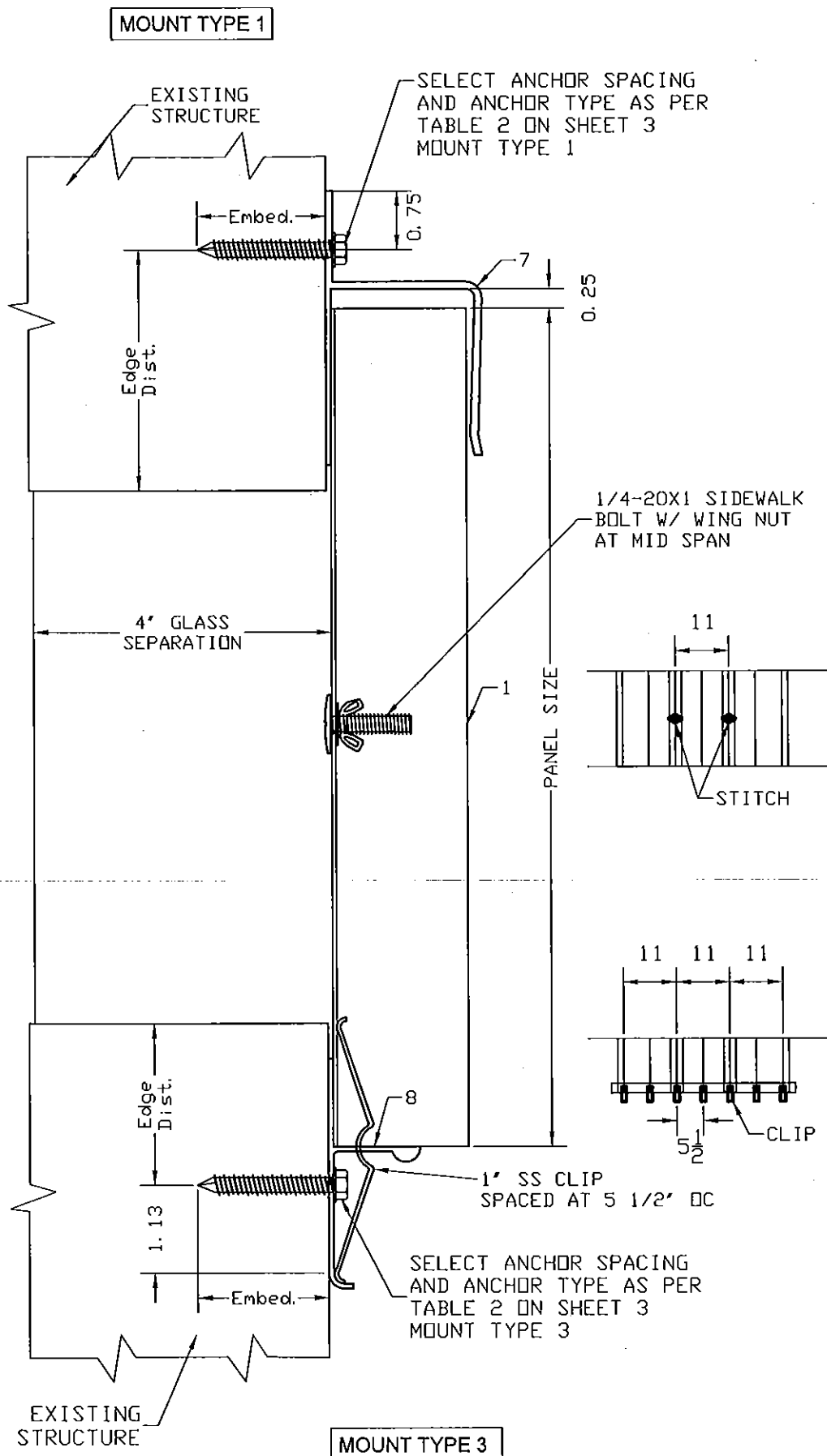
MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0706.04
Expiration Date 12/07/2016
By: [Signature]
Miami Dade Product Control

Date: 06/21/15
Scale: NA
Design by: PPMF

Drawing Number
15-190

SHEET
3 of 7



MANUFACTURER:
WILLARD
 SHUTTER COMPANY, INC.
 4420 NW 35TH COURT
 MIAMI, FL 33142
 Tel.: (305) 633-0162
 Fax.: (305) 638-8634

PRODUCT:
 0.050 ALUMINUM
 STORM PANEL

Engineering:
EngCo Inc.
 CA 8116
 5595 Orange Dr. 201
 Davie, FL 33314
 Tel.: (954) 585-0304
 Fax: (954) 585-9305
 ENGCO.COM

PEDRO DE FIGUEIREDO
 LICENSE
 No. 52609
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 2-3-2015

MIAMI-DADE BCCO:

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 15-0706.04
 Expiration Date 12/07/2016
 By *[Signature]*
 Miami Dade Product Control

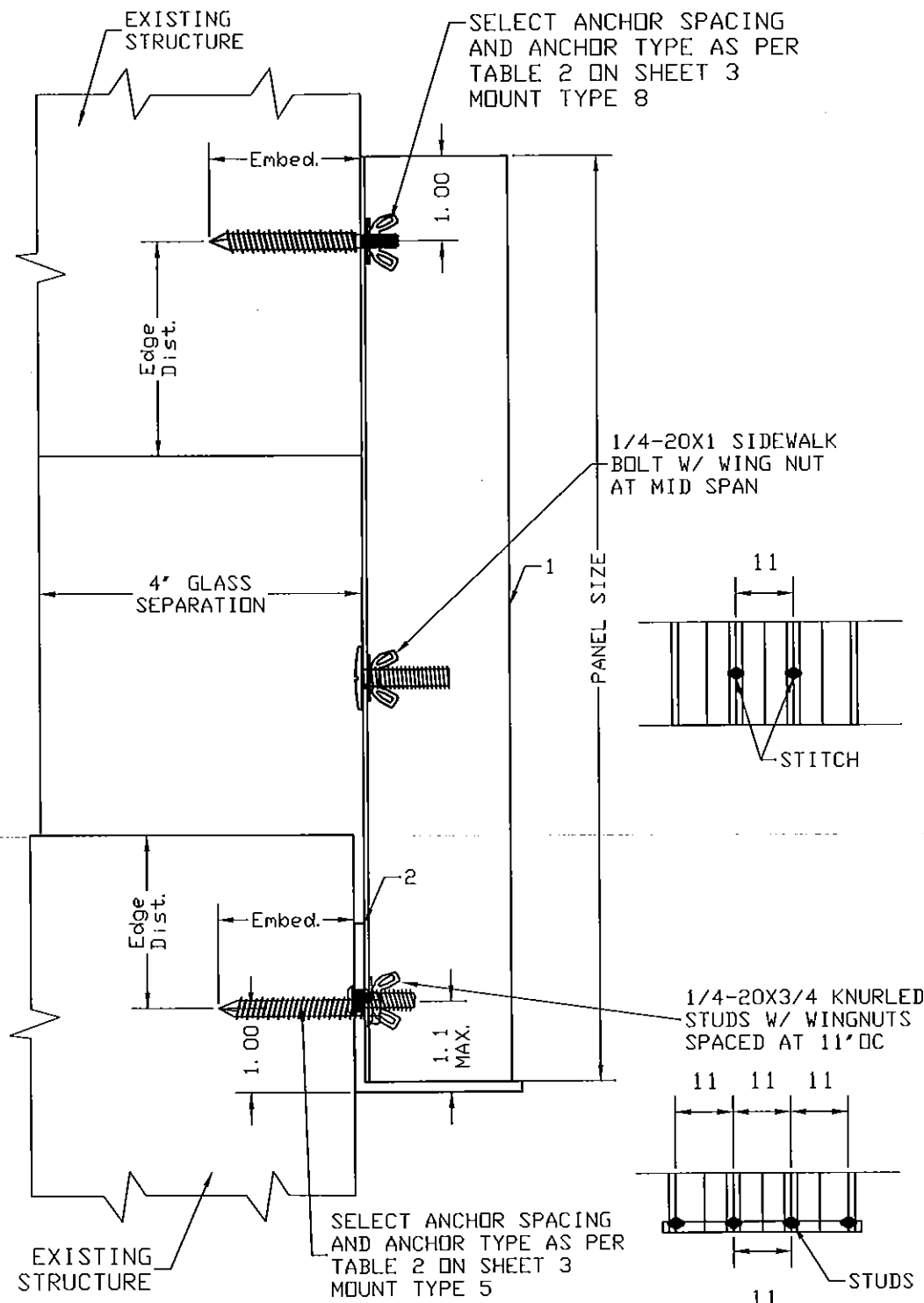
Date: 06/21/15
 Scale: NA
 Design by: PPMF

Drawing Number
 15-190

SHEET
 4 of 7

MOUNT TYPE 8

NOTE: CAN BE USED AT
SILL, HEADER OR JAMBS.

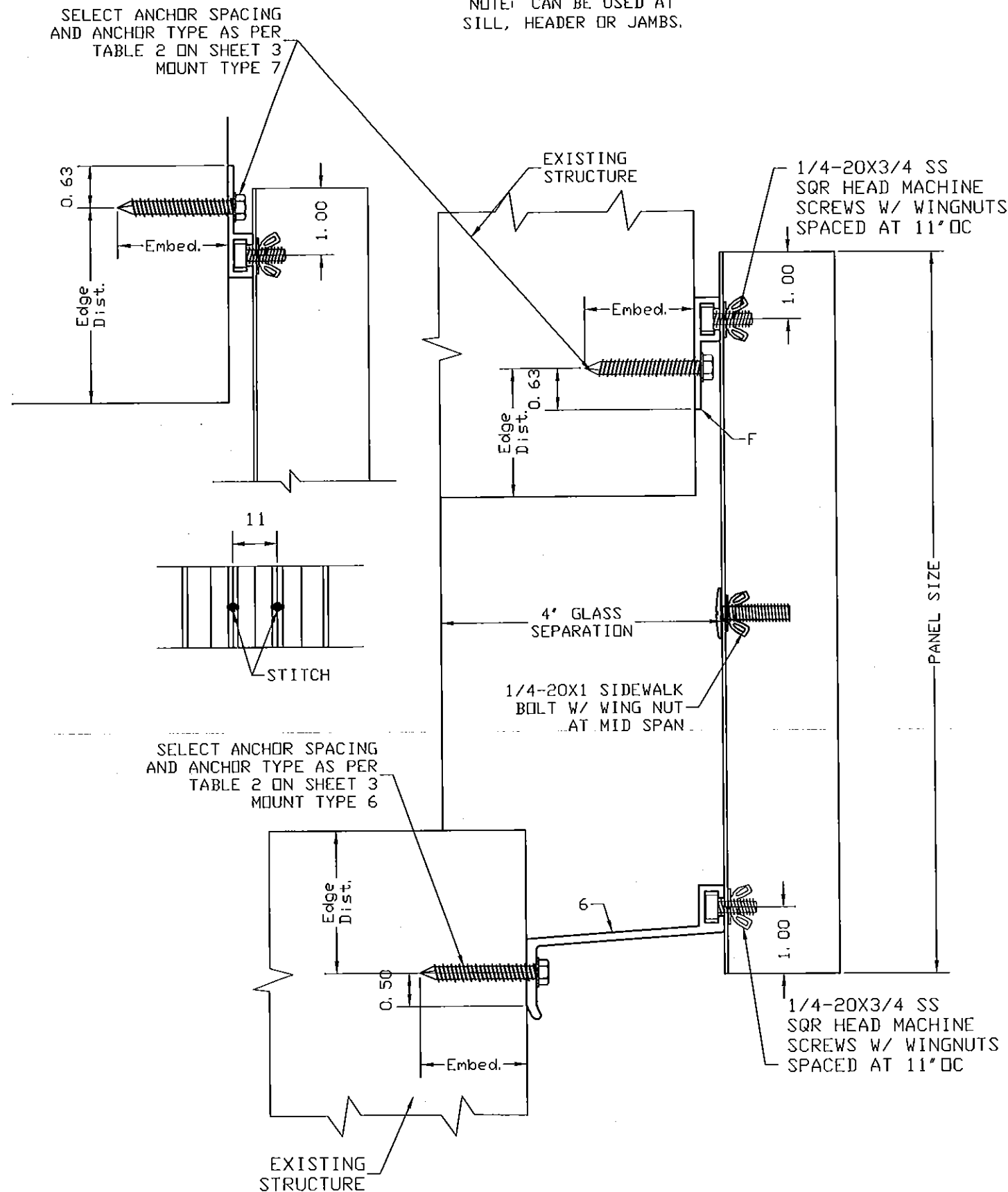


MOUNT TYPE 5

NOTE: CAN BE USED AT
SILL, HEADER OR JAMBS.

MOUNT TYPE 7

NOTE: CAN BE USED AT
SILL, HEADER OR JAMBS.



MOUNT TYPE 6

NOTE: CAN BE USED AT
SILL, HEADER OR JAMBS.

MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:

**0.050 ALUMINUM
STORM PANEL**

Engineering:

EngCo Inc.

CA 8116
5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-8305
ENGCO.COM
PE 52609
23 2015

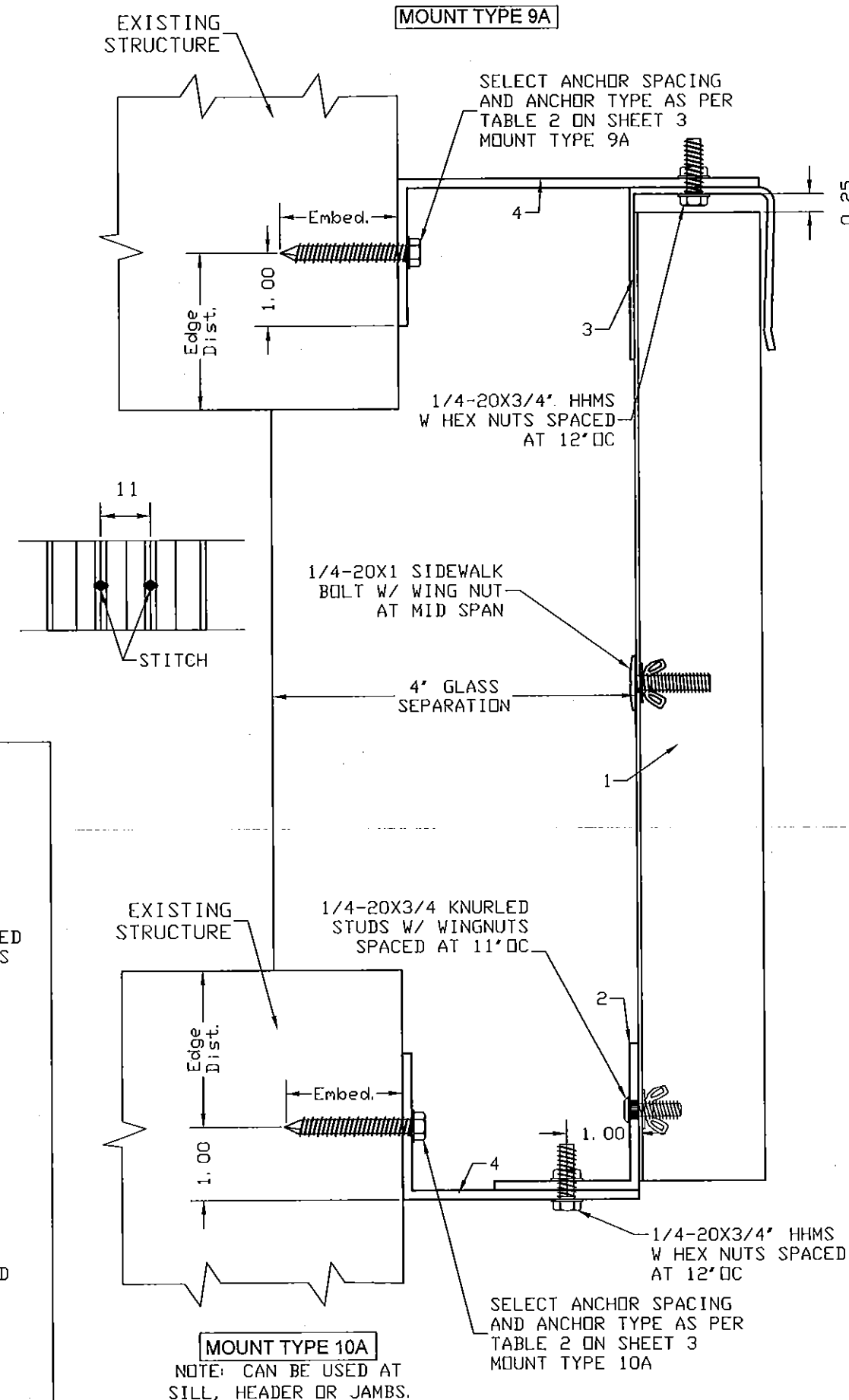
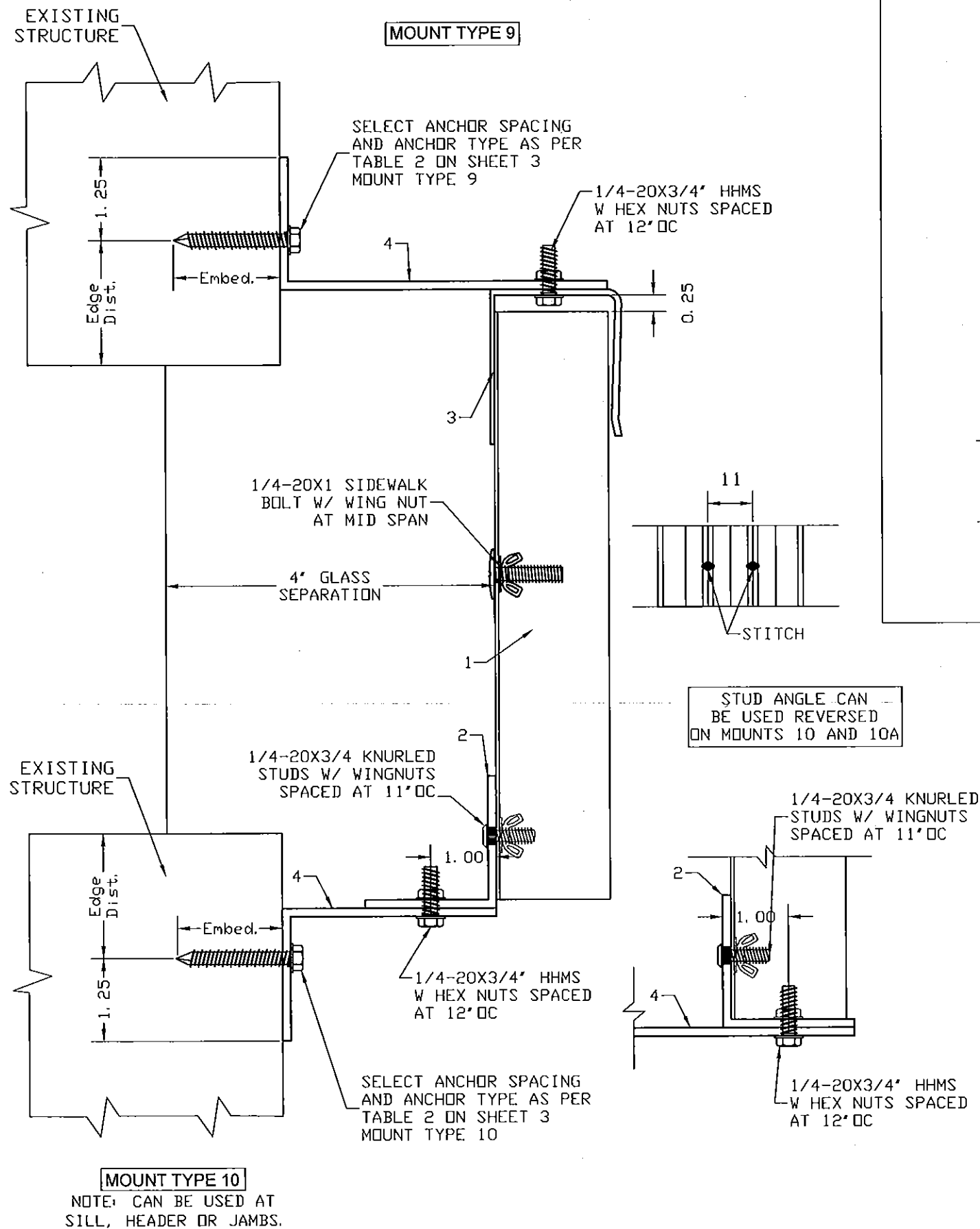
MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0706.04
Expiration Date 12/07/2016
By *[Signature]*
Miami Dade Product Control

Date: 06/21/15
Scale: NA
Design by: PPMF

Drawing Number
15-190

SHEET
5 of 7



MANUFACTURER:
WILLARD
 SHUTTER COMPANY, INC.
 4420 NW 35TH COURT
 MIAMI, FL 33142
 Tel.: (305) 633-0162
 Fax.: (305) 638-8634

PRODUCT:
**0.050 ALUMINUM
 STORM PANEL**

Engineering:
EngCo Inc.
 CA 8116
 5595 Orange Dr. 201
 Davie, FL 33314
 Tel.: (954) 585-0304
 Fax: (954) 585-0305
 ENGOONLINE.COM
 PEDRO DE FIGUEIREDO
 LICENSE
 No. 52609
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 PE 52609 12/3/2015

MIAMI-DADE BCCO:

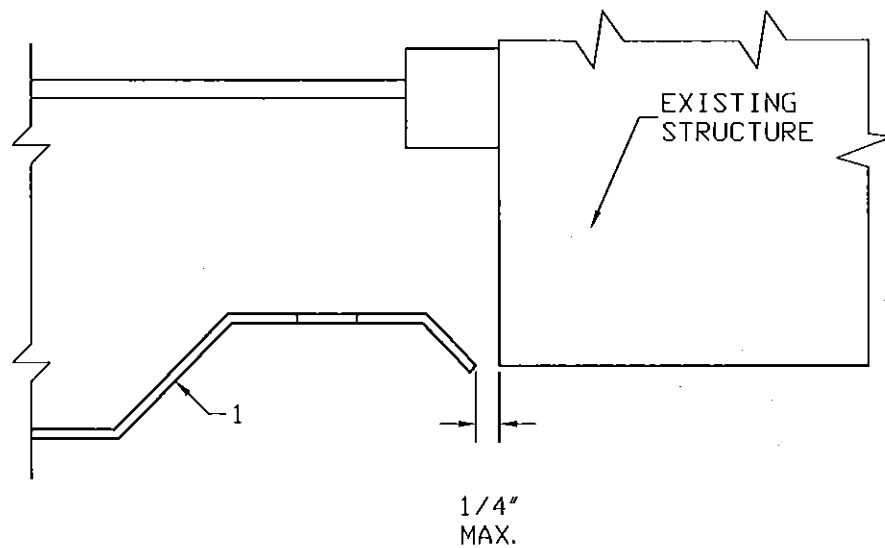
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 15-0706.04
 Expiration Date 12/07/2016
 By *H. H. H.*
 Miami Dade Product Control

Date: 06/21/15
 Scale: NA
 Design by: PPMF

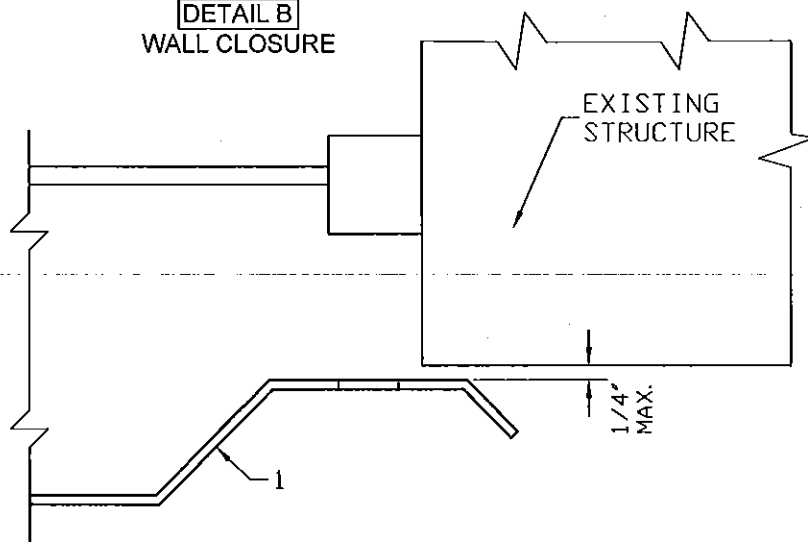
Drawing Number
15-190

SHEET
 6 of 7

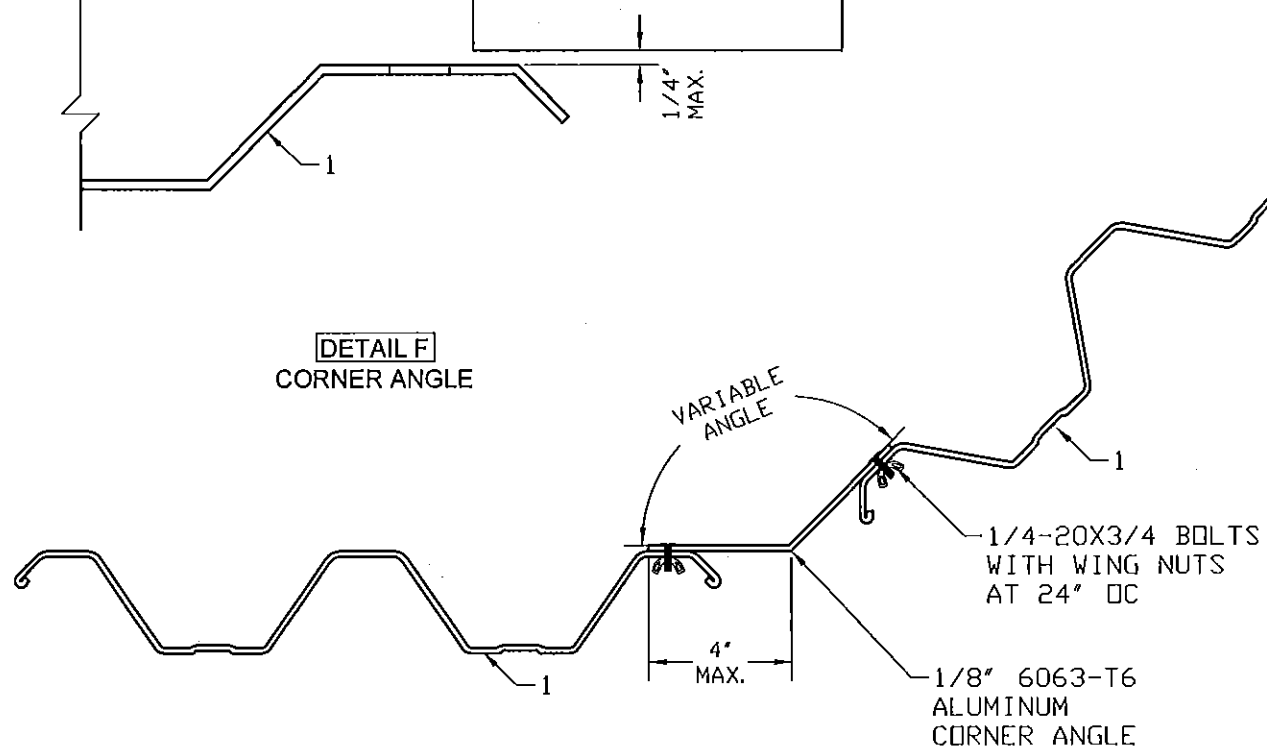
DETAIL A
INSET CLOSURE



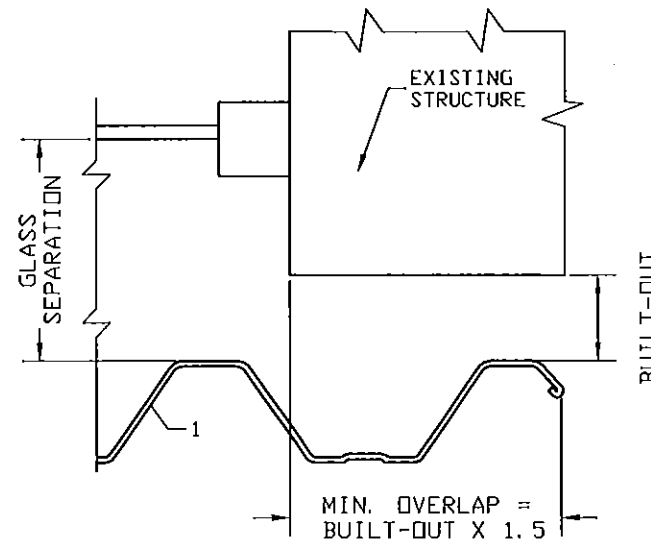
DETAIL B
WALL CLOSURE



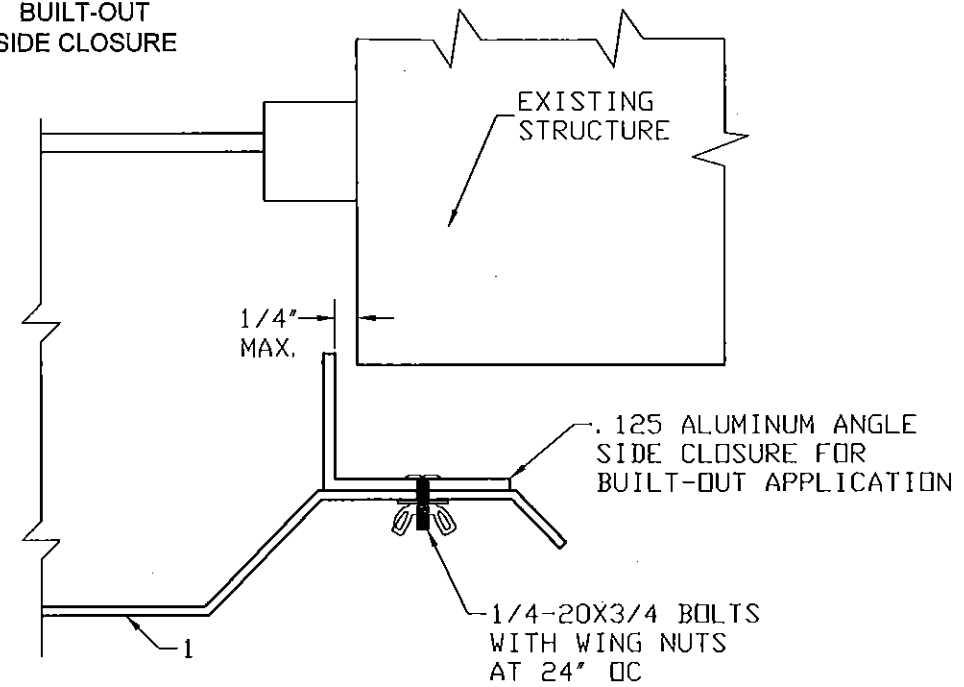
DETAIL F
CORNER ANGLE



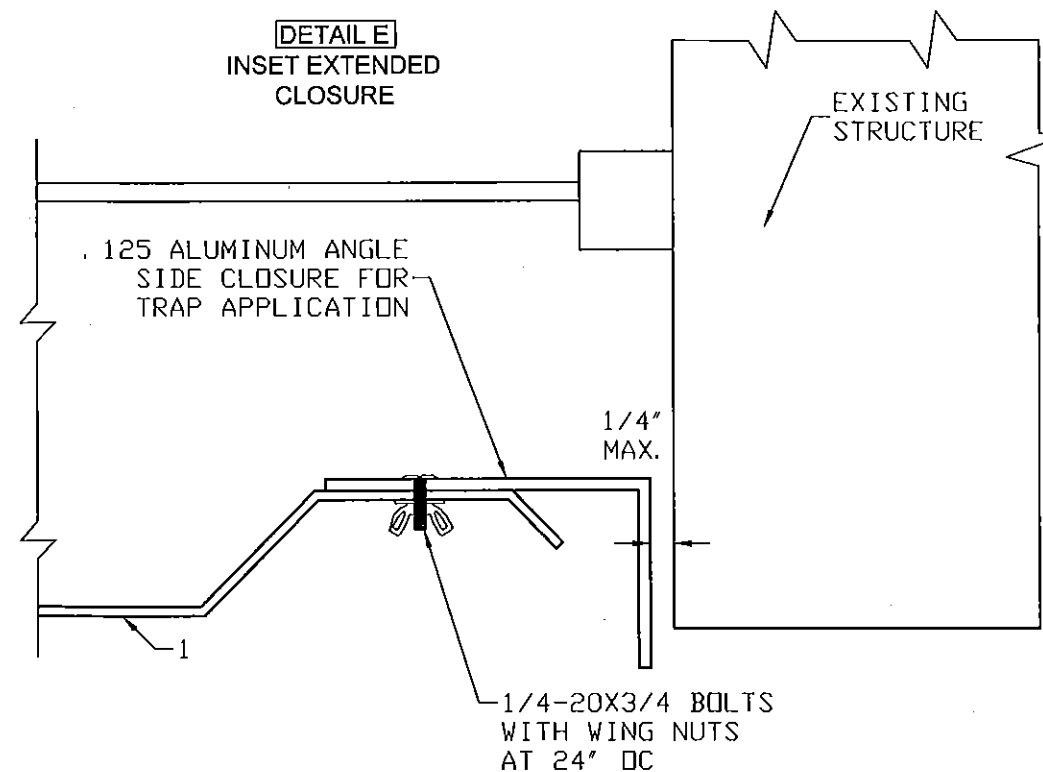
DETAIL C
WALL OVERLAP



DETAIL D
BUILT-OUT
SIDE CLOSURE



DETAIL E
INSET EXTENDED
CLOSURE



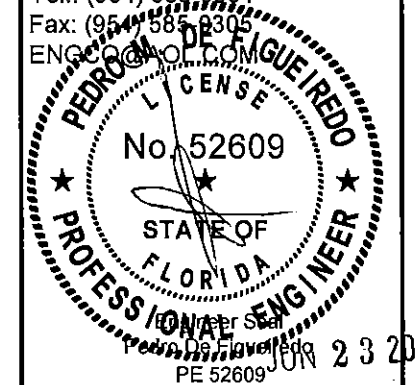
FBC 2014 SECTION 2413.7:
"STORM SHUTTERS MUST COMPLETELY COVER AN OPENING IN ALL DIRECTIONS. THE MAXIMUM SIDE CLEARANCE BETWEEN THE SHUTTER AND A WALL OR INSET SURFACE SHALL BE 1/4" (DETAILS A & B). ANY DISTANCE IN EXCESS OF 1/4" SHALL REQUIRE END CLOSURE (DETAILS D & E) OR SHUTTER OVERLAP (DETAIL C), WHERE APPLICABLE. SHUTTER OVERLAP SHALL BE A MINIMUM OF 1.5 TIMES THE SIDE CLEARANCE BETWEEN THE SHUTTER AND WALL."

MANUFACTURER:
WILLARD
SHUTTER COMPANY, INC.
4420 NW 35TH COURT
MIAMI, FL 33142
Tel.: (305) 633-0162
Fax.: (305) 638-8634

PRODUCT:
**0.050 ALUMINUM
STORM PANEL**

Engineering:
EngCo Inc.
CA 8116

5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-9305
ENGCO.COM



MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0706.04
Expiration Date 12/07/2016
By: [Signature]
Miami Dade Product Control

Date: 06/21/15
Scale: NA
Design by: PPMF

Drawing Number
15-190

SHEET
7 of 7